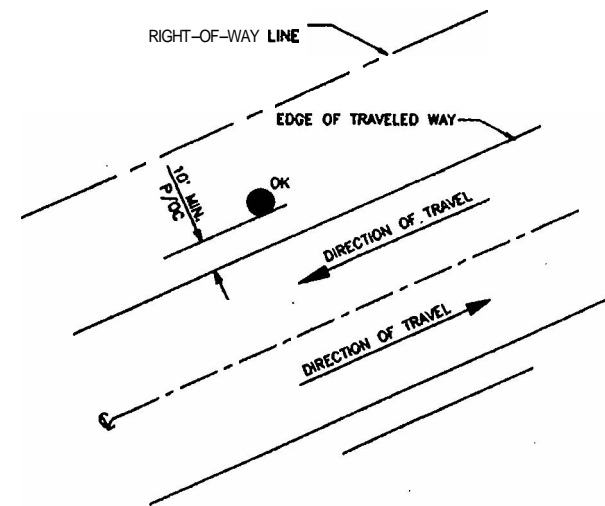


**OUTSIDE OF CURVE
POSTED 40 MPH & OVER**

LOC LENGTH OF CURVE (FEET) AT EDGE OF TRAVELED WAY FROM P.C. TO P.T.
 SOR SAFETY OVERRUN (FEET) BEYOND P.T.
 PPL PROHIBITED POLE LOCATION (FEET) (LOC + SOR) WHERE POLES OR OBSTACLES MUST BE REMOVED OR BARRICADED

| PPL (FEET) ON OUTSIDE OF CURVES WITH POSTED SPEED LIMIT OF 40 MPH & OVER. | |
|---|-----------------|
| 40 MPH | LOC + 220 (SOR) |
| 45 | LOC + 255 |
| 50 | LOC + 290 |
| 55 | LOC + 325 |

TO ROADWAY WITH SHOULDER OR MOUNTABLE CURB ON OUTSIDE OF CURVE WITH:
 -RADIUS LESS THAN 3500'.
 -POSTED SPEED GREATER THAN OR EQUAL TO 40 M.P.H.



GENERAL CASE

P/OC: POLE/OBSTACLE CLEARANCE TO NEAREST FACE OF POLE/OBSTACLE

APPLIES: TO ROADWAY WITH SHOULDER OR MOUNTABLE CURB ON.

- 1 TANGENT, OR
- 2 INSIDE OF CURVE, OR
- 3 OUTSIDE OF CURVE. EITHER WITH
 -POSTED SPEED LESS THAN 40 MPH
 -RADIUS GREATER THAN 3500' ON ROADWAY MEETING ALL CURRENT DESIGN STANDARDS.

NOTES:

1. THE STANDARDS SHALL APPLY TO EVERY NEW **PLACEMENT** AND **EVERY** PLANNED, NON-EMERGENCY REPLACEMENT OF EXISTING POLES AND OTHER UTILITY STRUCTURES WITHIN **KING COUNTY** RIGHT-OF-WAY.
2. NO POLES MAY BE REPLACED ON THE OUTSIDE OF A CURVE **WITH** A POSTED SPEED LIMIT OF 40 MPH OR OVER UNLESS APPROVED THROUGH A VARIANCE REQUEST.
3. SEE SECS. 5.11 & 8.02G.



KING COUNTY PUBLIC WORKS
 KING COUNTY, WASHINGTON

**CLEARANCE OF ROADSIDE OBSTACLES
 ON SHOULDER TYPE ROAD**

DWG. NO. **5-001**

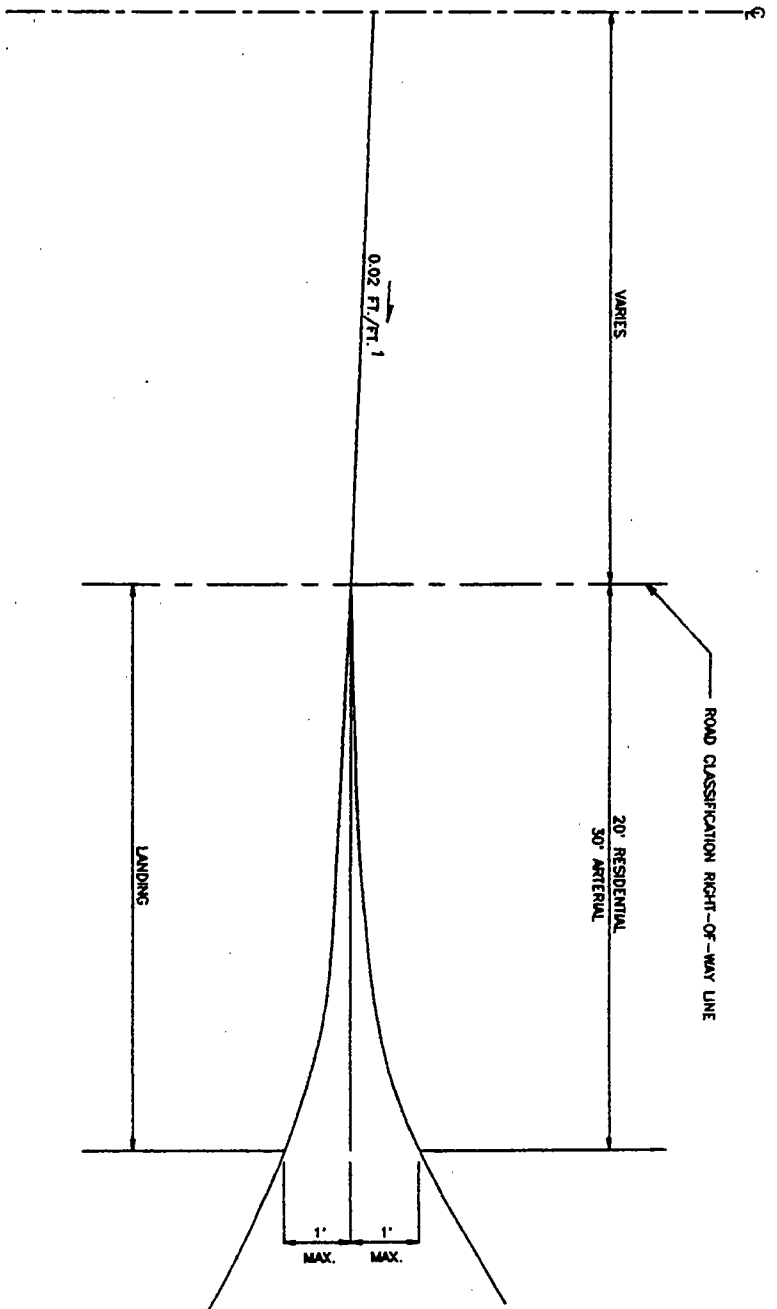


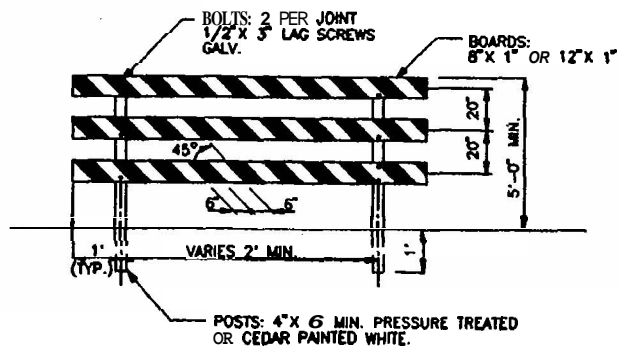
KING COUNTY PUBLIC WORKS
KING COUNTY, WASHINGTON

INTERSECTION LANDING

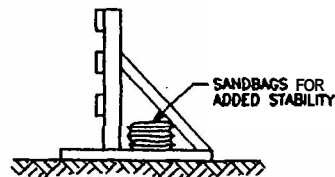
DWG. 5-002
NO.

- NOTES:
1. SEE SECS. 2.02, 2.03 OR 2.04 FOR SUPERELEVATION REQUIREMENTS.
 2. SEE SEC. 2.10 FOR LANDING REQUIREMENTS.



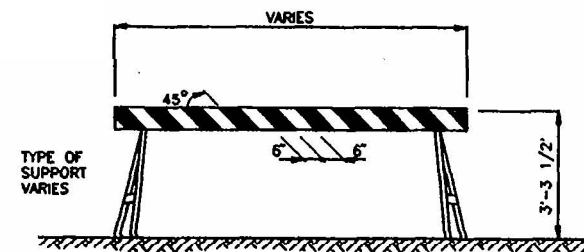


FIXED (PERMANENT)
TYPE III BARRICADE

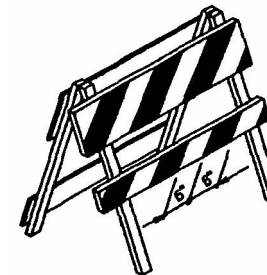


MOVABLE (TEMPORARY)
TYPE III BARRICADE

| BARRICADE NOTES: | | | |
|------------------|-----------------------------|---------------------|--------------------------|
| TYPE | I | II | III |
| WIDTH OF RAIL | 8' MIN. 12' MAX. | 8' MIN. 12' MAX. | 8' MIN. 12' MAX. |
| LENGTH OF RAIL | 2' MIN. | 2' MIN. | 4' MIN. |
| HEIGHT | 3' MIN. | 3' MIN. | 5' MIN. |
| TYPE OF FRAME | DEMOUNTABLE OR HEAVY "A" | LIGHT "A" FRAME | POST OR SKIDS |
| FLEXIBILITY | ESSENTIALLY MOVABLE | PORTABLE | ESSENTIALLY PERMANENT |



TYPE I BARRICADE



TYPE II BARRICADE

STRIPE NOTES:

ORANGE & WHITE IF TEMPORARY.
RED & WHITE IF PERMANENT.
REFLECTORIZED
SLANT DOWNWARD, RIGHT OR LEFT,
IN DIRECTION TRAFFIC WILL PASS.
SLANT BOTH DIRECTIONS FROM MIDDLE
IF TRAFFIC PASSES BOTH ENDS.
WIDTH 6" EXCEPT 4" IF RAILS ARE
LESS THAN 3' LONG.
SLANT DOWNWARD TO MIDDLE AT END
OF CLOSED ROAD.

SEE SEC. 5.07 AND MUTCD SEC. 6C-8.

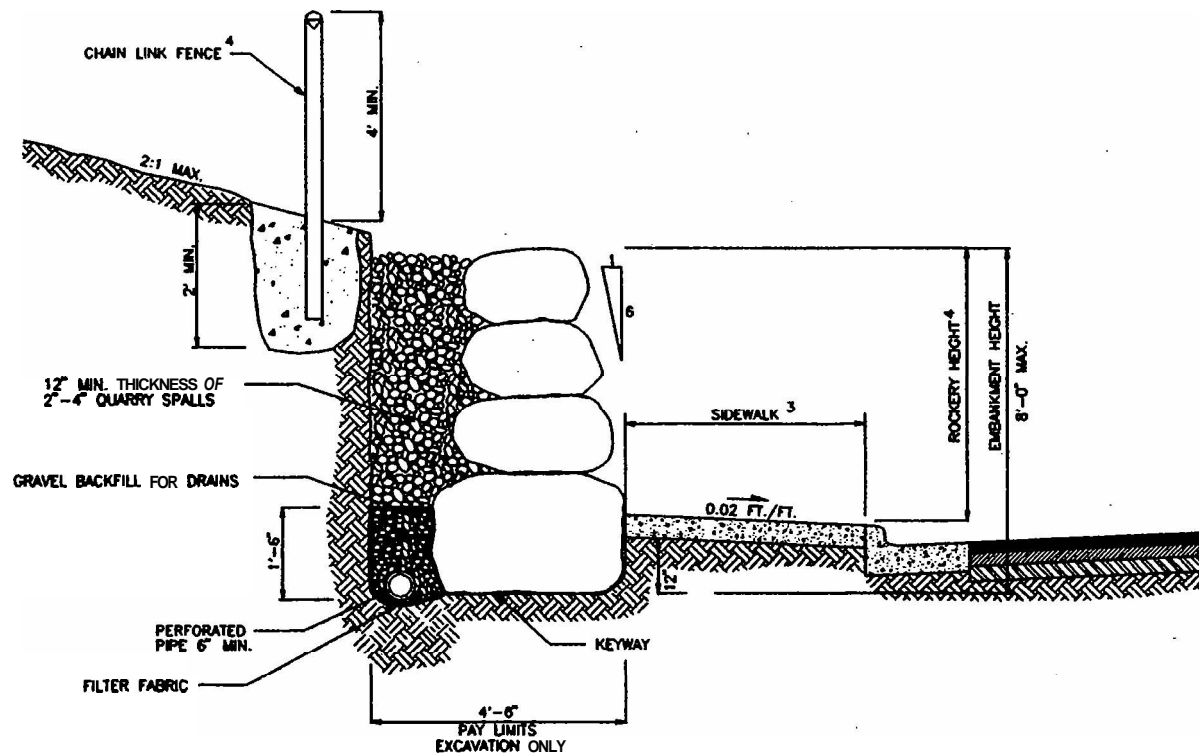
NOTE:
FOR DIMENSIONS NOT
SHOWN, SEE TABLE.



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KING COUNTY, WASHINGTON

BARRICADES

DWG. 5-003
NO.



NOTES:

1. SEE SEC. 5.01.
2. WSDOT/APWA 9-03.12[4]
3. IF ROCKERY OR RETAINING WALL IS BEHIND ROLLED CURB OR ON A RURAL SECTION, FACE OF ROCKERY OR RETAINING WALL MUST BE A MIN. OF 10' FROM TRAVELED WAY.
4. C M N LINK FENCE, TYPE NO. 4 OR 6 (WSDOT/APWA STANDARD), REQUIRED WHEN ROCKERY HEIGHT IS THREE FEET OR GREATER.



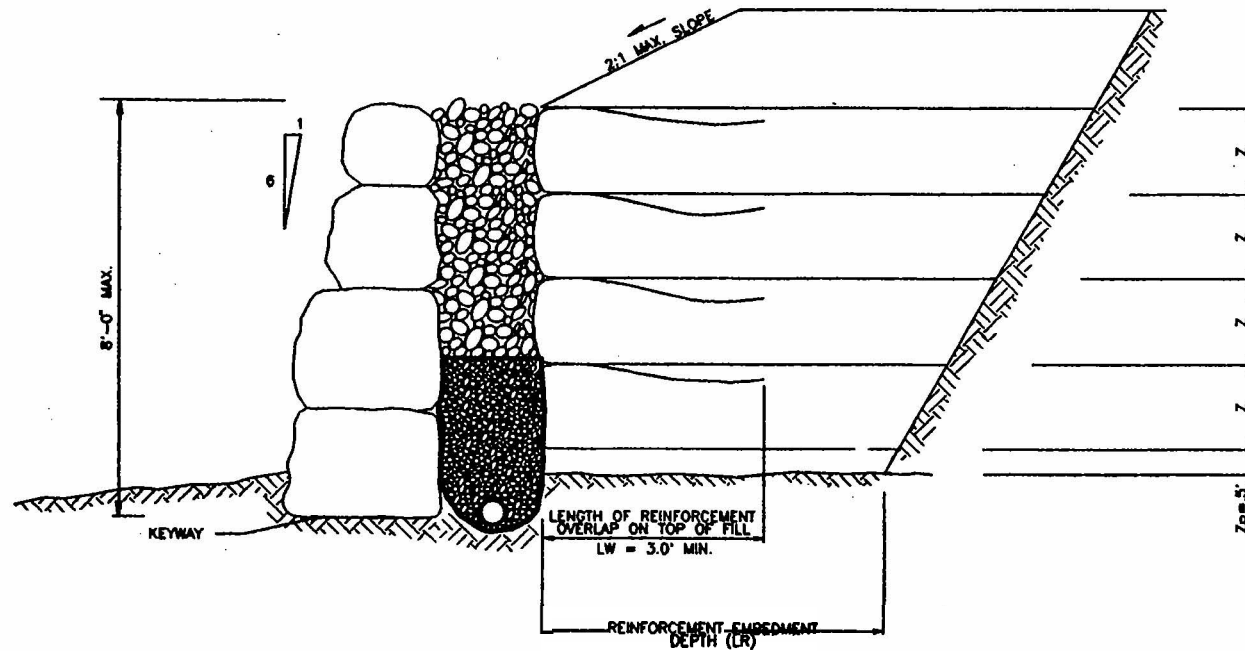
KING COUNTY PUBLIC WORKS
KING COUNTY, WASHINGTON

ROCK FACING, CUT SECTION

DWG. No. 5-004



1. SEE SEC 5.01.
2. **WSDOT/APWA 9-03.12[4].**
3. **CHAIN LINK FENCE, TYPE NO. 4 (WSDOT/APWA STANDARD) OR HANDRAIL REQUIRED WHEN ROCKERY HEIGHT IS 3' OR GREATER.**
4. **CAP SHALL BE CONCRETE CLASS 3000.**
5. **FLATTER SLOPE MAY BE REQUIRED IN LESS STABLE SOILS.**
6. **FOR ROCKERY HEIGHTS EXCEEDING 4', SEE DWG. NO. 5-007.**
7. **TRAFFIC BARRIERS MAY BE REQUIRED ON ROADS WITH SPEED LIMITS OF 40 MPH OR GREATER. WHERE HEIGHTS EXCEED 6'. SEE CHAPTER 7 OF THE WSDOT DESIGN MANUAL.**



NOTES:

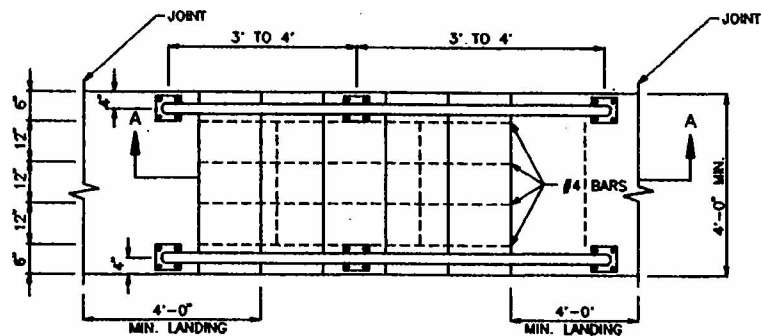
1. ROCKERY FACINGS ARE TO BE CONSTRUCTED TO KING COUNTY ROAD STANDARDS. SEE SEC. 5.01 AND DWGS. NO. 5-004 THROUGH 5-006.
2. THE WALL FOUNDATION IS TO BE CLEARED OF ORGANIC MATTER AND DEBRIS AND THE UNDERLYING MINERAL SOIL COMPACTED TO 95 PERCENT OF THE MAX. DRY DENSITY. THE EMBANKMENT MATERIAL IS TO BE GRAVEL BORROW MEETING THE REQUIREMENTS OF 9-03.14 OF THE WSDOT STANDARDS. THE BACKFILL IS TO BE PLACED IN THIN LIFTS, NOT EXCEEDING SIX INCHES IN THICKNESS AND COMPACTED TO 95 PERCENT OF THE MAX. DRY DENSITY.
3. GEOSYNTHETIC FABRIC OR GEOGRID REQUIREMENTS INCLUDING TYPE, VERTICAL SPACING (Z), AND EMBEDMENT (LR), WILL BE DETERMINED ON A ROCKERY BY ROCKERY BASIS BY A PROFESSIONAL ENGINEER.
4. Z_B IS HEIGHT OF FIRST LAYER OF REINFORCEMENT ABOVE COMPACTED SUBGRADE ELEVATION.
5. EMBANKMENTS BEHIND ROCKERIES EXCEEDING 4' IN HEIGHT SHALL BE REINFORCED WITH GEOSYNTHETIC FABRIC OR GEOGRID.



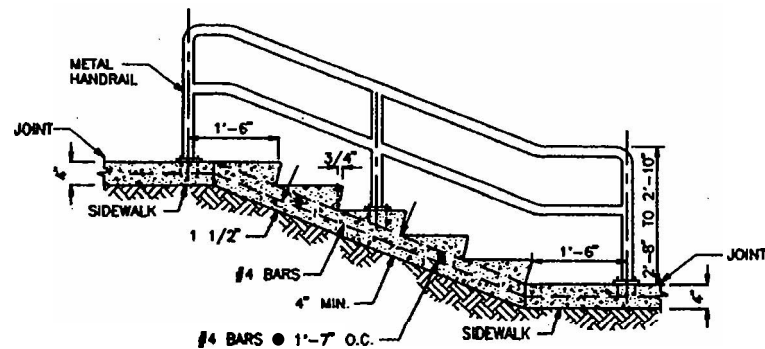
KING COUNTY PUBLIC WORKS
KING COUNTY, WASHINGTON

ROCK FACING, FILL SECTION REINFORCEMENT

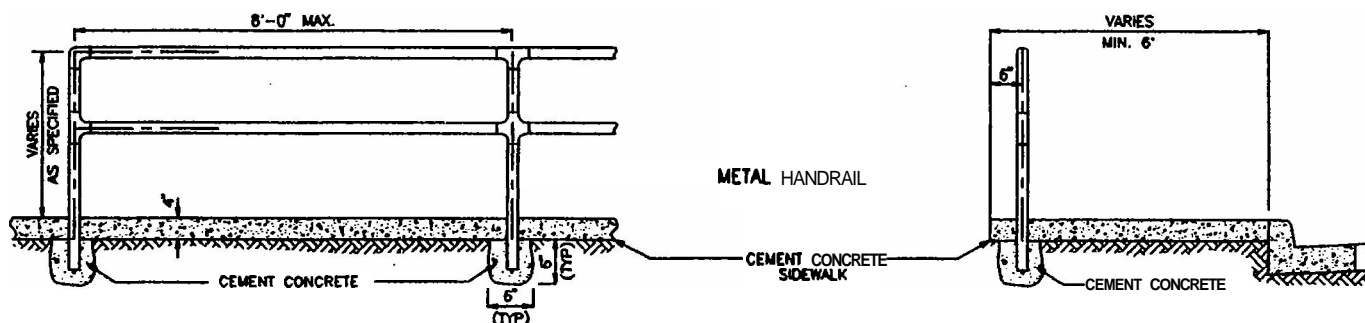
DWG. NO. 5-007



CONCRETE STEPS
PLAN



CONCRETE STEPS
SECTION A-A



NOTES FOR CONCRETE STEPS:

1. CONCRETE: CEMENT CONCRETE CLASS 3000.
2. ALL STEPS: SAME DIMENSIONS. **WITHIN 3/8" MAX. DIFFERENCE.**
3. RISERS: 7 1/2" MAX., 5" MIN.
4. TREADS: 12" MAX., 11" MIN., **WITH TRANSVERSE 0.01 FT./FT. SLOPE.**
5. METAL **HANDRAIL** REQUIRED FOR 4 STEPS OR MORE. SEE NOTES BELOW.
6. REINFORCING BARS SHALL MEET THE REQUIREMENTS OF ASTM A-615, GRADE 60 AND ARE REQUIRED FOR 4 STEPS OR MORE.
7. SEE SEC. 3.06.
8. MAX. **VERTICAL** DISTANCE BETWEEN LANDINGS IS 12'.

NOTES FOR HANDRAILS:

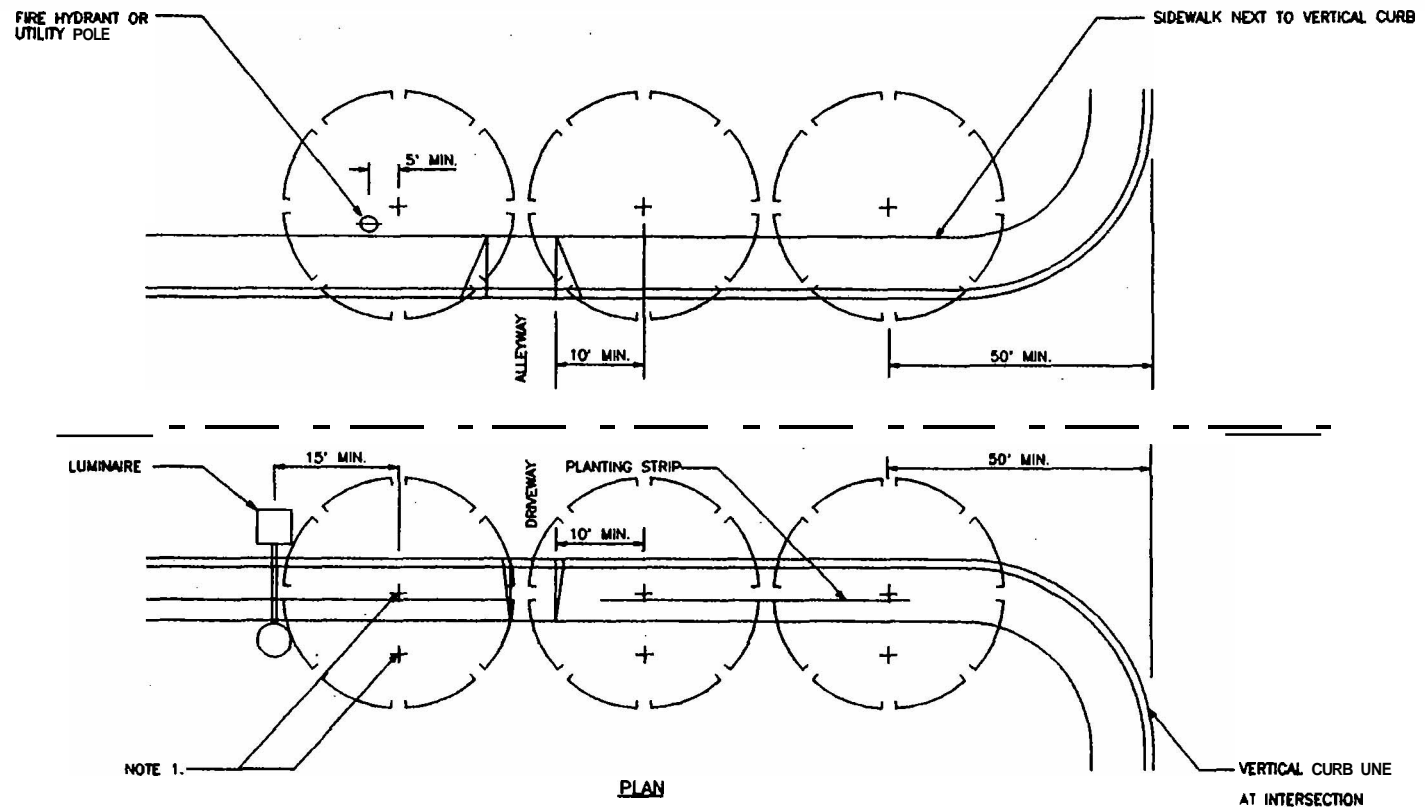
1. GALVANIZED STEEL OR ALUMINUM.
2. 1 1/4" TO 2" O.D. ROUND OR OVAL PIPE.
3. WELDED. **WITH SMOOTH SURFACE AND JOINTS.**
4. POSTS SET IN MIN. 6" CONCRETE CLASS 3000.
5. SEE SEC. 3.06.



KING COUNTY PUBLIC WORKS
KING COUNTY, WASHINGTON

CONCRETE STEPS & METAL HANDRAIL

DWG. No. 5-008



NOTES:

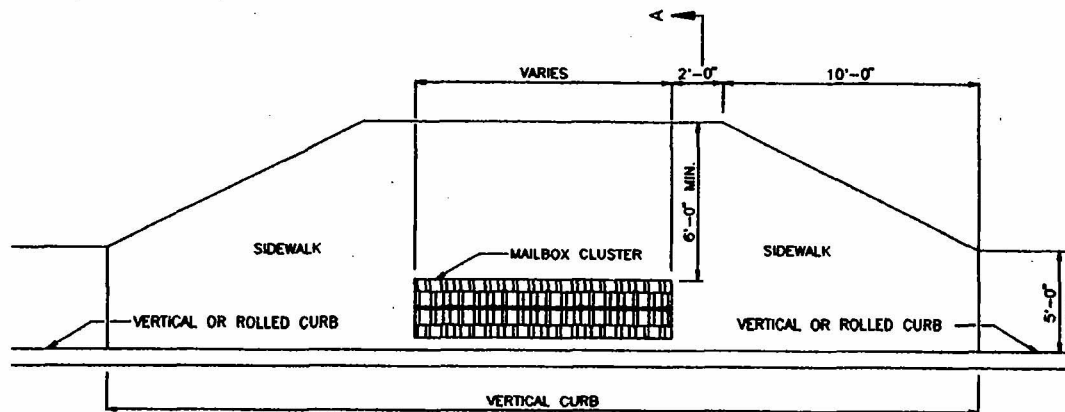
1. TREES SHALL GENERALLY BE PLANTED BACK OF THE SIDEWALK. PLANTING STRIPS WILL BE APPROVED ONLY AS PART OF A LANDSCAPING PLAN IN WHICH PLANT MAINTENANCE, COMPATIBILITY WITH UTILITIES, AND TRAFFIC SAFETY ARE DULY CONSIDERED.
2. IF PLANTING STRIPS ARE APPROVED:
 - A MIN. DISTANCE FROM CENTER OF ANY TREE TO NEAREST EDGE OF VERTICAL CURB SHALL BE 4 FEET
 - B TREES SHALL BE STAKED IN A MANNER NOT TO OBSTRUCT SIDEWALK TRAFFIC.
 - C IN CASE OF BLOCK-OUTS, MIN. CLEAR SIDEWALK WIDTH SHALL BE 5 FEET IN RESIDENTIAL OR 8 FEET IN BUSINESS DISTRICTS.
- 3 ON BUS ROUTES, PLANS SHALL BE COORDINATED WITH METRO SERVICE PLANNING. PHONE 684-1622.
- 4 SEE SEC. 5 03.



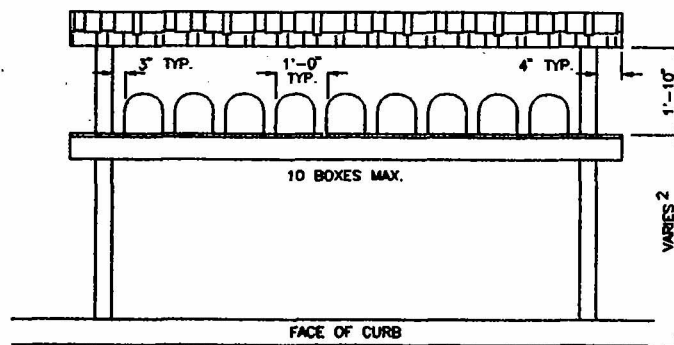
KING COUNTY PUBLIC WORKS
KING COUNTY, WASHINGTON

STREET TREE STANDARDS

DWG. No. 5-009



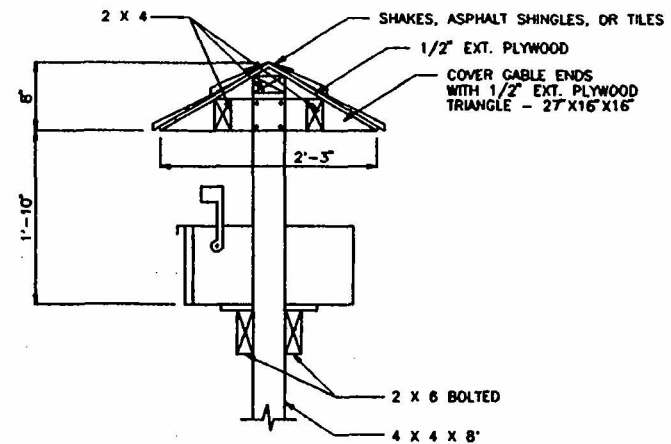
PLAN



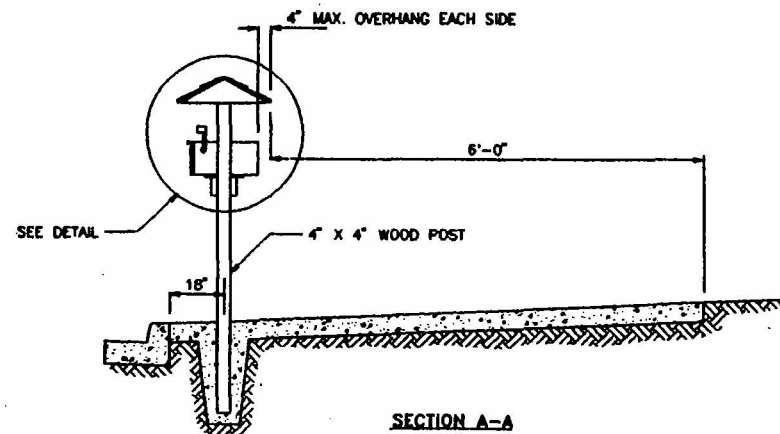
ELEVATION

NOTES:

1. FOR THREE OR MORE MAILBOXES ON URBAN RESIDENTIAL ACCESS STREETS WHERE THE SPEED LIMIT IS 25 MPH.
2. MAILBOX HEIGHT VARIES ACCORDING TO THE TYPE OF DELIVERY VEHICLE. THESE HEIGHTS SHALL BE DETERMINED BY THE POSTMASTER DURING PLAN REVIEW.
3. MAILBOXES MUST BE POSTMASTER APPROVED WITH A UNIFORM BOX STYLE AND METHOD OF ADDRESS IDENTIFICATION.
4. LOCATION OF MAILBOXES SUBJECT TO APPROVAL OF THE REVIEWING AGENCY.
5. WOOD POSTS SHALL BE PRESSURE TREATED FIR OR HEMLOCK.
6. FOR MAILBOX CLUSTER LOCATION IN SHOULDER SECTION SEE DWG. NO. 5-011
7. SEE SEC. 5-04.
8. OPTIONAL NEWSPAPER BOX STRUCTURES ARE SUBJECT TO APPROVAL OF REVIEWING AGENCY.



DETAIL



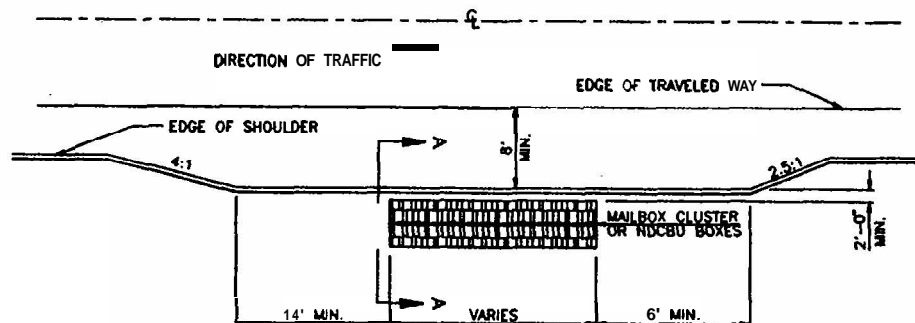
SECTION A-A



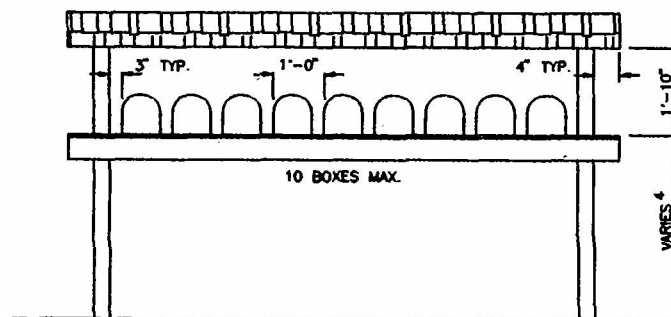
KING COUNTY PUBLIC WORKS
KING COUNTY, WASHINGTON

MAILBOX MOUNTING CURB TYPE LOCATION

DWG. NO. 5-010



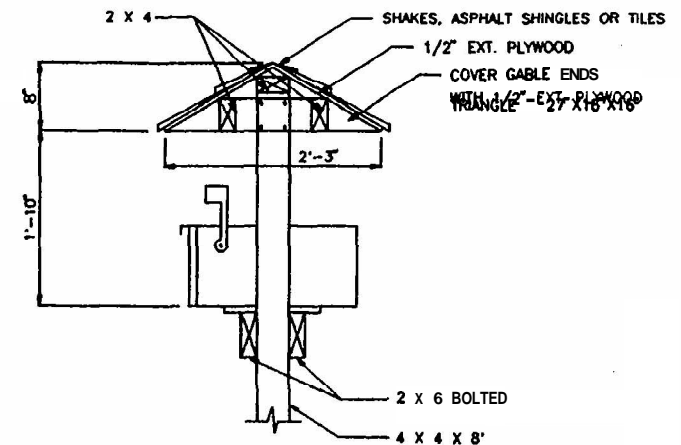
MAILBOX TURNOUT
FOR SHOULDER WIDTHS LESS THAN 8'-0" ³
PLAN



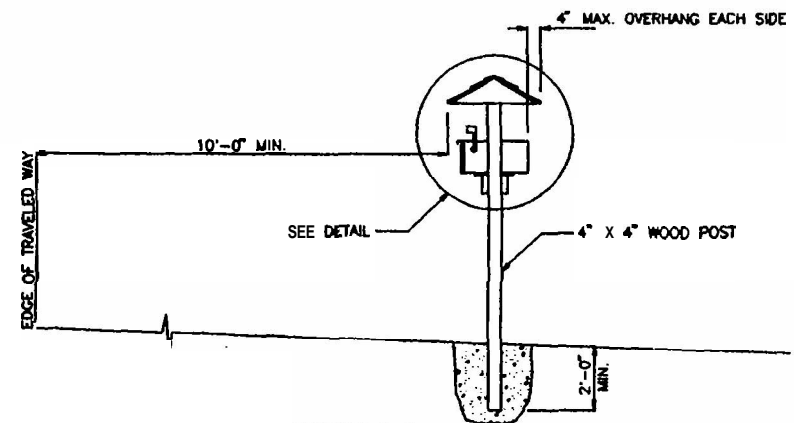
ELEVATION

NOTES:

1. SEE SEC. 5.04.
2. MAILBOX INSTALLATIONS ON PROJECTS FUNDED BY FEDERAL GRANTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WSDOT/APWA STANDARD PLAN H-12.
3. REVIEWING AGENCY MAY APPROVE INSTALLATIONS OF MAILBOXES WITHOUT TURNOUT IF CONSTRUCTED IN CONFORMANCE WITH WSDOT/APWA STANDARD PLAN H-12.
4. MAILBOX HEIGHT VARIES ACCORDING TO THE TYPE OF DELIVERY VEHICLE. THESE HEIGHTS SHALL BE DETERMINED BY THE POSTMASTER DURING PLAN REVIEW.



DETAIL



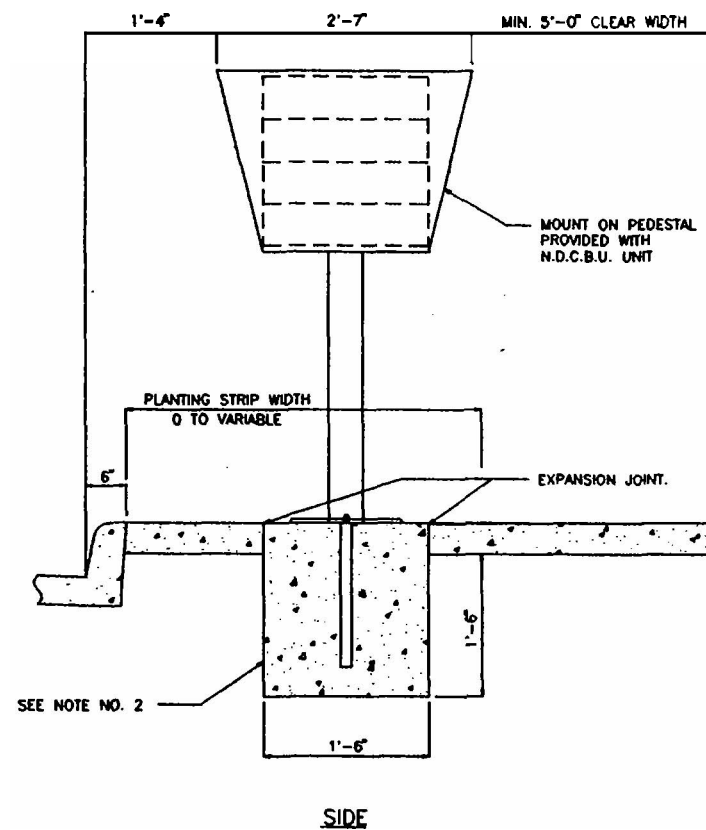
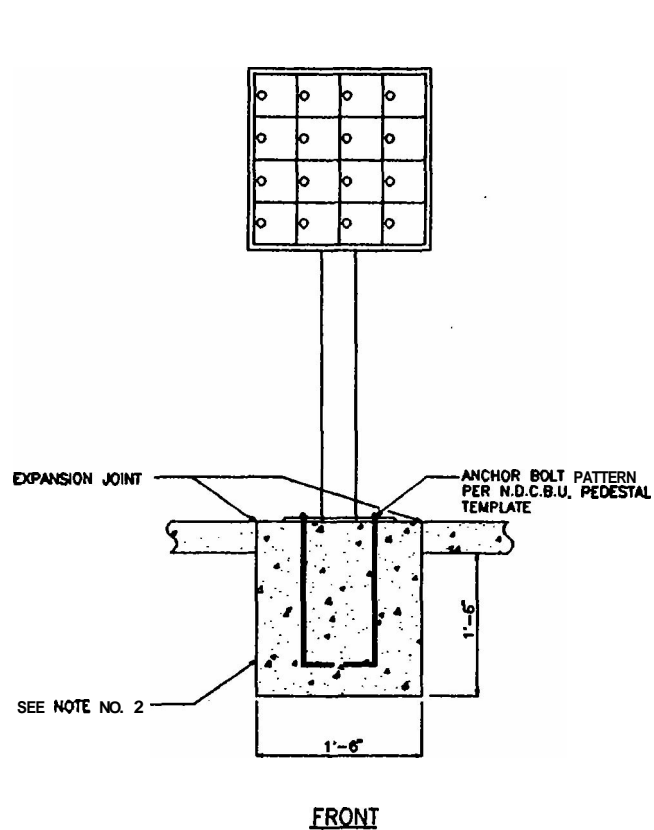
SECTION A-A



KING COUNTY PUBLIC WORKS
KING COUNTY, WASHINGTON

MAILBOX MOUNTING SHOULDER TYPE LOCATION

DWG. NO. 5-011



NOTES:

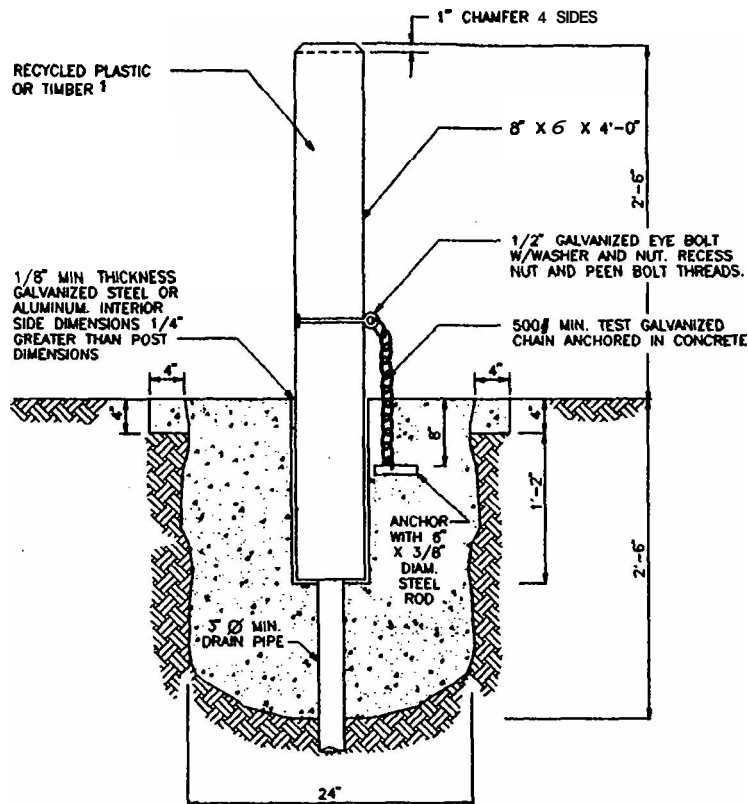
1. SEE SEC. 5.04.
2. INSTALLATION OF N.D.C.B.U. (INCLUDING CONSTRUCTION OF BASE) WILL BE DONE BY U.S. POSTAL SERVICE
3. SEE SEC. 3.04 FOR JOINT REQUIREMENTS.



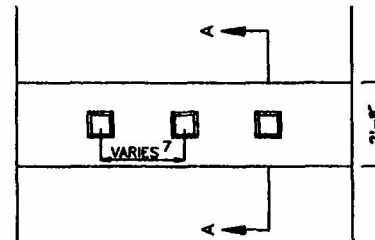
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KING COUNTY, WASHINGTON

**NEIGHBORHOOD DELIVERY & COLLECTION BOX UNIT
(N.D.C.B.U.) MAILBOX INSTALLATION**

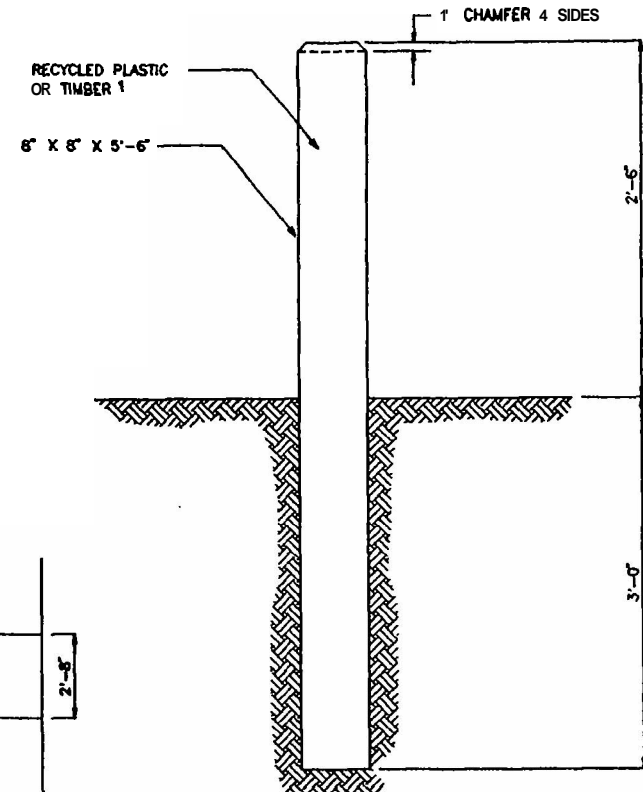
**DWG. 5-012
NO.**



REMOVABLE BOLLARD
SECTION A-A



REMOVABLE BOLLARD
PLAN



FIXED BOLLARD

NOTES.

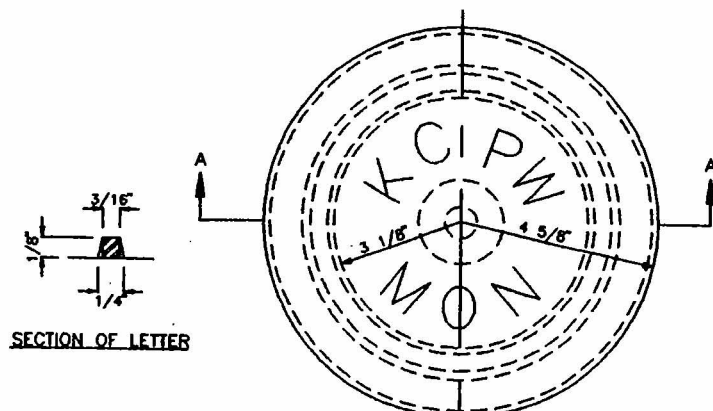
1. RECYCLED **PLASTIC** BOLLARD **SHALL** BE WHITE. **TIMBER** SHALL BE DOUGLAS FIR, DENSE CONSTRUCTION GRADE, AND SHALL BE PRESSURE TREATED WITH A WATERBORNE **PRESERVATIVE** (ACA **CCA**, ACZA) IN ACCORDANCE WITH THE REQUIREMENTS OF SEC **9-09 3** (4) OF THE **WSDOT/APWA** STANDARD SPECIFICATIONS. TOP 5" OF **TIMBER** SHALL BE **PAINTED** WHITE.
2. STEEL TUBE SHALL CONFORM TO ASTM A53 GRADE A
3. NUTS, BOLTS, & WASHERS SHALL CONFORM TO ASTM A307.
4. ALL STEEL PARTS SHALL BE GALVANIZED.
5. CONCRETE **SHALL** BE CLASS 3000.
6. SEE SEC. 5.08.
7. MIN 50" SPACING ON **TRAILS** LESS THAN 10' WIDE. 60" SPACING ON **TRAILS** 10' OR WIDER.

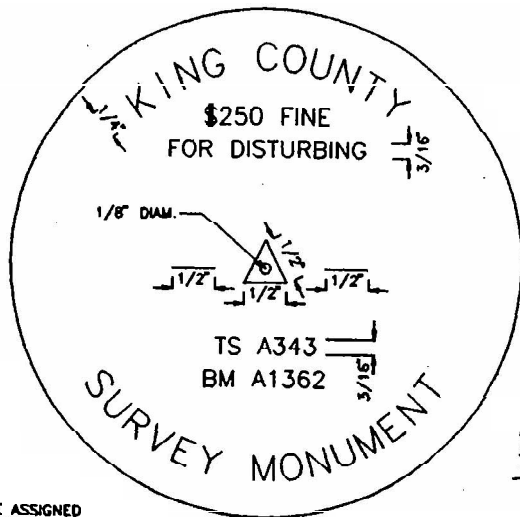


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BOLLARDS

DWG. **5-013**
NO.

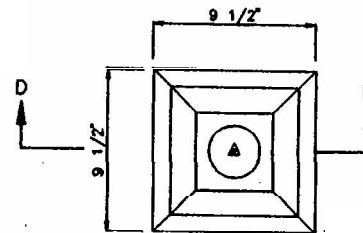
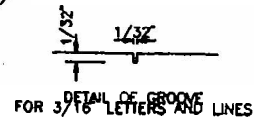
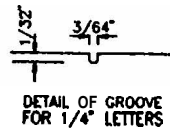




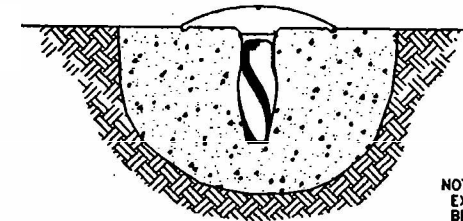
PLAN

NME:

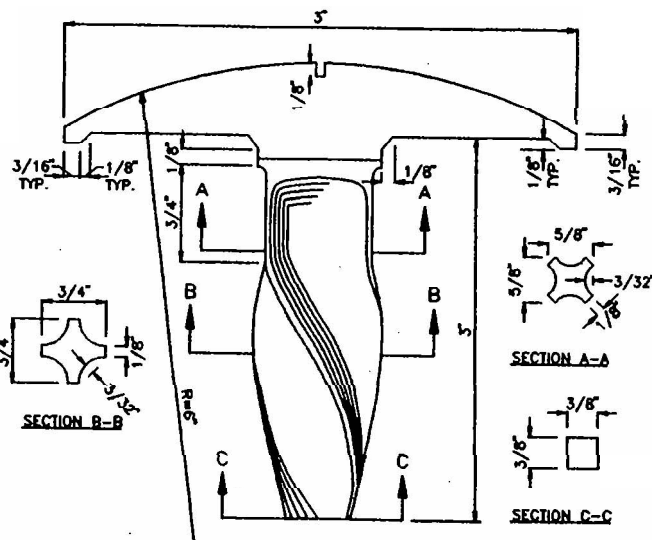
ONLY THE ASSIGNED IDENTIFICATION NUMBERS ARE TO APPEAR ON THE BRASS DISC.



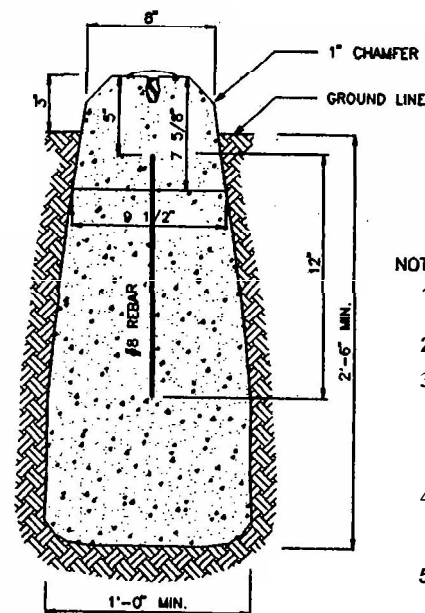
PLAN



NOTE:
EXCAVATION TO BE MADE LARGE ENOUGH TO CLEAR MARKER 1 1/2\"/>



BRASS DISC
ELEVATION



GENERAL INSTALLATION

SECTION D-D

NOTES:

1. THE BRASS DISC SHALL BE CAST OF YELLOW BRASS SAE 41.
2. CONCRETE SHALL BE CLASS 4000.
3. THE HOLE SHALL BE 2.5' MIN. IN DEPTH OR 0.5' BELOW THE DEEPEST RECORDED FROST LINE. ALL LOOSE MATERIAL SHALL BE REMOVED FROM THE BOTTOM OF THE HOLE SO THAT THE CONCRETE IS ON FIRM, UNDISTURBED EARTH.
4. THE TOP OF THE CONCRETE SHALL BE TROWLED SMOOTH AND THE BRASS DISC SET IN THE CENTER WITH ITS TOP EDGE FLUSH AND LEVEL.
5. COORDINATES OR ELEVATIONS SHALL NOT BE PLACED ON THE BRASS DISCS.



KING COUNTY PUBLIC WORKS
KING COUNTY, WASHINGTON

OFF-ROADWAY SURVEY MONUMENT

DWG. NO. 5-015